

# Notice of Allowability

Application No.

10/007,766

Examiner

Qamrun Nahar

Applicant(s)

LEWIS ET AL.

Art Unit

2191

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the after final amendment filed on 10/11/2007.
2. ☒ The allowed claim(s) is/are 1, 4-10, 12 and 15-21, renumbered 1-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

### **DETAILED ACTION**

1. This action is in response to the after final amendment filed on 10/11/2007.
2. The rejection under 35 U.S.C. 103(a) as being unpatentable over Calder (U.S. 5,963,972) in view of Lomet (U.S. 5,870,763), and further in view of Serra (U.S. 6,226,787) to claims 1-2, 7-8, 12-13, 18-20 and 23-25 is withdrawn in view of applicant's amendment and remarks/arguments.
3. The rejection under 35 U.S.C. 103(a) as being unpatentable over Calder (U.S. 5,963,972) in view of Lomet (U.S. 5,870,763), further in view of Serra (U.S. 6,226,787), and further in view of Ju (U.S. 6,175,957) to claims 3-4, 6, 9-11, 14-15, 17 and 21-22 is withdrawn in view of applicant's amendment and remarks/arguments.
4. The rejection under 35 U.S.C. 103(a) as being unpatentable over Calder (U.S. 5,963,972) in view of Lomet (U.S. 5,870,763), and further in view of Serra (U.S. 6,226,787), and further in view of Cai (U.S. 6,349,363) to claims 5, 16 and 26 is withdrawn in view of applicant's amendment and remarks/arguments.
5. Claims 1, 4-6, 8, 12, 15-17, 19 and 20 have been amended.
6. Claims 2-3, 11, 13, 14 and 22-26 have been canceled.
7. Claims 1, 4-10, 12 and 15-21 are pending.
8. Claims 1, 4-10, 12 and 15-21 are allowed, renumbered 1-16.

### ***Drawings***

9. The drawings were received on 11/08/2001. These drawings are acceptable.

### EXAMINER'S AMENDMENT

10. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher P. Rauch (Reg. No. 45,034) on November 7, 2007, and November 19, 2007.

The application has been amended as follows:

In the Specification: Please amend paragraph [0040] as follows:  
Figures 13-15, 15A and 15B each shows three exemplary memory regions having blocks assigned to distribution groups.

In the Claims:

Please amend claims 12 and 15-18 as follows:

Claim 12 (Currently Amended),

At line 1, before "medium" insert storage

Claim 15 (Currently Amended),

At line 1, before "medium" insert storage

Claim 16 (Currently Amended),

At line 1, before "medium" insert storage

Art Unit: 2191

**Claim 17 (Currently Amended),**

At line 1, before “medium” insert storage

**Claim 18 (Currently Amended),**

At line 1, before “medium” insert storage

- END -

**REASONS FOR ALLOWANCE**

11. The following is an examiner’s statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, determining whether dependencies exist among the blocks such that a first block depends on data assigned to a second block using the read and write identifiers; ... wherein the step of displaying comprises the step of displaying a graph comprising nodes assigned to the blocks and dependency arcs representing the determined dependencies, and wherein the step of displaying further comprises the step of presenting the dependency arcs using a satisfied dependency visualization when the determined dependency is satisfied, and presenting the dependency arcs using an unsatisfied dependency visualization when the determined dependency is unsatisfied as substantially recited in independent claims 1, 8, 12, 19 and 20.

The closest cited prior arts, the combination of Calder (U.S. 5,963,972), Lomet (U.S. 5,870,763), and Serra (U.S. 6,226,787) teaches a method for developing a data flow program comprising code segments that operate on data in memory. However, the combination of Calder

Art Unit: 2191

(U.S. 5,963,972), Lomet (U.S. 5,870,763), and Serra (U.S. 6,226,787) fails to teach determining whether dependencies exist among the blocks such that a first block depends on data assigned to a second block using the read and write identifiers; ... wherein the step of displaying comprises the step of displaying a graph comprising nodes assigned to the blocks and dependency arcs representing the determined dependencies, and wherein the step of displaying further comprises the step of presenting the dependency arcs using a satisfied dependency visualization when the determined dependency is satisfied, and presenting the dependency arcs using an unsatisfied dependency visualization when the determined dependency is unsatisfied as substantially recited in independent claims 1, 8, 12, 19 and 20; and as pointed out by the applicant's remarks/arguments on pg. 9, par. 1 to pg. 10, par. 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

12. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (571) 272-3730. The examiner can normally be reached on Mondays through Fridays from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y Zhen, can be reached on (571) 272-3708. The fax phone number for the organization where this application or processing is assigned is (571) 273-8300.

Art Unit: 2191

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Qamrun Nahar  
November 7, 2007



WEI ZHEN  
SUPERVISORY PATENT EXAMINER